Kai Loon Chen

List of Publications by Year in Descending Order

36 papers	5,006 citations	28 h-index	37 g-index
37 ext. papers	5,321 ext. citations	8.2 avg, IF	6.05 L-index

#	Paper	IF	Citations
36	Biofouling Response of Laboratory-Scale Polysulfone Membranes Modified with Bioinspired Polydopamine and Silver Nanoparticles. *Environmental Engineering Science*, **2019**, 36, 335-343	2	4
35	Adsorption of Human Serum Albumin on Graphene Oxide: Implications for Protein Corona Formation and Conformation. *Environmental Science & Technology*, **2019**, 53, 8631-8639	10.3	22
34	Heteroaggregation of Graphene Oxide with Nanometer- and Micrometer-Sized Hematite Colloids: Influence on Nanohybrid Aggregation and Microparticle Sedimentation. *Environmental Science & Technology*, **2017**, 51, 6821-6828	10.3	49
33	Mechanism of Divalent-Ion-Induced Charge Inversion of Bacterial Membranes. *Journal of Physical Chemistry Letters*, **2016**, 7, 2434-8	6.4	15
32	Influence of Solution Chemistry and Soft Protein Coronas on the Interactions of Silver Nanoparticles with Model Biological Membranes. *Environmental Science & Technology*, **2016**, 50, 2301-9	10.3	30
31	Aggregation and interactions of chemical mechanical planarization nanoparticles with model biological membranes: role of phosphate adsorption. *Environmental Science: Nano*, **2016**, 3, 146-156	7.1	17
30	Forming mechanism study of unique pillar-like and defect-free PVDF ultrafiltration membranes with high flux. *Journal of Membrane Science*, **2015**, 487, 1-11	9.6	29
29	Imparting antimicrobial and anti-adhesive properties to polysulfone membranes through modification with silver nanoparticles and polyelectrolyte multilayers. *Journal of Colloid and Interface Science*, **2015**, 451, 125-33	9.3	15
28	Interactions of Graphene Oxide with Model Cell Membranes: Probing Nanoparticle Attachment and Lipid Bilayer Disruption. *Langmuir*, **2015**, 31, 12076-86	4	65
27	Physical, chemical, and in vitro toxicological characterization of nanoparticles in chemical mechanical planarization suspensions used in the semiconductor industry: towards environmental health and safety assessments. *Environmental Science: Nano*, **2015**, 2, 227-244	7.1	46
26	Polysulfone Membranes Modified with Bioinspired Polydopamine and Silver Nanoparticles Formed in Situ To Mitigate Biofouling. *Environmental Science and Technology Letters*, **2015**, 2, 59-65	11	92
25	Nanoparticles meet cell membranes: probing nonspecific interactions using model membranes. *Environmental Science & Technology*, **2014**, 48, 873-80	10.3	158
24	Disaggregation of heteroaggregates composed of multiwalled carbon nanotubes and hematite nanoparticles. *Environmental Sciences: Processes and Impacts*, **2014**, 16, 1371-8	4.3	10
23	Release kinetics of multiwalled carbon nanotubes deposited on silica surfaces: quartz crystal microbalance with dissipation (QCM-D) measurements and modeling. *Environmental Science & Technology*, **2014**, 48, 4406-13	10.3	30
22	Heteroaggregation Reduces Antimicrobial Activity of Silver Nanoparticles: Evidence for Nanoparticle□Cell Proximity Effects. *Environmental Science and Technology Letters*, **2014**, 1, 361-366	11	51
21	Bacterial anti-adhesive properties of polysulfone membranes modified with polyelectrolyte multilayers. *Journal of Membrane Science*, **2013**, 446, 201-211	9.6	28
20	Interaction of multiwalled carbon nanotubes with supported lipid bilayers and vesicles as model biological membranes. *Environmental Science & Technology*, **2013**, 47, 5711-9	10.3	58

19	Influence of solution chemistry on the release of multiwalled carbon nanotubes from silica surfaces. *Environmental Science & Technology*, **2013**, 47, 12211-8	10.3	36
18	Heteroaggregation of multiwalled carbon nanotubes and hematite nanoparticles: rates and mechanisms. *Environmental Science & Technology*, **2012**, 46, 5912-20	10.3	103
17	Aggregation kinetics of citrate and polyvinylpyrrolidone coated silver nanoparticles in monovalent and divalent electrolyte solutions. *Environmental Science & Technology*, **2011**, 45, 5564-71	10.3	512
16	Potential release pathways, environmental fate, and ecological risks of carbon nanotubes. *Environmental Science & Technology*, **2011**, 45, 9837-56	10.3	406
15	Influence of surface oxidation on the aggregation and deposition kinetics of multiwalled carbon nanotubes in monovalent and divalent electrolytes. *Langmuir*, **2011**, 27, 3588-99	4	110
14	Fouling and cleaning of RO membranes fouled by mixtures of organic foulants simulating wastewater effluent. *Journal of Membrane Science*, **2011**, 376, 196-206	9.6	190
13	Adsorption kinetics and reversibility of linear plasmid DNA on silica surfaces: influence of alkaline earth and transition metal ions. *Biomacromolecules*, **2010**, 11, 1225-30	6.9	27
12	Assessing the colloidal properties of engineered nanoparticles in water: case studies from fullerene C60 nanoparticles and carbon nanotubes. *Environmental Chemistry*, **2010**, 7, 10	3.2	124
11	Relating colloidal stability of fullerene (C60) nanoparticles to nanoparticle charge and electrokinetic properties. *Environmental Science & Technology*, **2009**, 43, 7270-6	10.3	158
10	Interaction of fullerene (C60) nanoparticles with humic acid and alginate coated silica surfaces: measurements, mechanisms, and environmental implications. *Environmental Science & Technology*, **2008**, 42, 7607-14	10.3	251
9	Reduced aggregation and sedimentation of zero-valent iron nanoparticles in the presence of guar gum. *Journal of Colloid and Interface Science*, **2008**, 324, 71-9	9.3	304
8	Role of divalent cations in plasmid DNA adsorption to natural organic matter-coated silica surface. *Environmental Science & Technology*, **2007**, 41, 5370-5	10.3	71
7	Enhanced aggregation of alginate-coated iron oxide (hematite) nanoparticles in the presence of calcium, strontium, and barium cations. *Langmuir*, **2007**, 23, 5920-8	4	217
6	Influence of humic acid on the aggregation kinetics of fullerene (C60) nanoparticles in monovalent and divalent electrolyte solutions. *Journal of Colloid and Interface Science*, **2007**, 309, 126-34	9.3	530
5	Aggregation kinetics of alginate-coated hematite nanoparticles in monovalent and divalent electrolytes. *Environmental Science & Technology*, **2006**, 40, 1516-23	10.3	380
4	Aggregation and deposition kinetics of fullerene (C60) nanoparticles. *Langmuir*, **2006**, 22, 10994-1001	4	574
3	Influence of natural organic matter and ionic composition on the kinetics and structure of hematite colloid aggregation: implications to iron depletion in estuaries. *Langmuir*, **2004**, 20, 9000-6	4	197
2	A new normalization method for determination of colloidal fouling potential in membrane processes. *Journal of Colloid and Interface Science*, **2004**, 271, 426-33	9.3	31

1 The development of membrane fouling in full-scale RO processes. *Journal of Membrane Science*, **2004**, 232, 63-72 9.6 65